



Cost and Software Data Reporting Training

Responsibility Assignment Matrix (RAM) Module

Schedule

DAY '	1	DAY 2	2	DAY:	3
0800	Class Orientation	0800	Contract Planning	0900	Question /
0830	Background /	0915	SRDR Planning (Part 1)		Answer Session
	Familiarization Module			930	Validation (Part 1)
0945	Break	1015	Break	1015	Break
1000	WBS Module	1030	SRDR Planning (Part 2)	1030	Validation (Part 2)
1130	Lunch	1130	Lunch	1130	Lunch
1230	RAM Module	1230	Contracting	1230	SRDR Reporting
1330	Evolutionary Acquisition	1330	Cost Reporting (Part 1)	1400	Break
1430	Break	1500	Break	1415	Final Exam
1445	Program Planning Module	1515	Cost Reporting (Part 2)	1615	Wrap-Up

Lesson Assignment Sheet

Objectives:

 For students to know how to build an effective Responsibility Assignment Matrix (RAM)

Desired Learning Outcomes:

- Understand the basis for generating a RAM
- Be able to describe the various uses of a RAM
- Be familiar with draft guidance
- Understand CSDR reporting thresholds
- Understand how to properly structure a RAM

• Assignment:

EXERCISE 4-1. HOUSE RAM

Reference Material:

- CSDR Reference Book
 - DoD Instruction 5000.2, "Operation of the Defense Acquisition System"
- Internet
 - DoD 5000.4-M-1, Cost and Software Data Reporting (CSDR) Manual (DRAFT September 2005) (http://dcarc.pae.osd.mil/csdr/CSDR_Manual_4-1-04-R22.pdf)

DoD 5000.4-M-1 (Sep 05 Draft)



C3.5.7 Stakeholder Responsibilities.

"In coordination with the CWIPT, the DoD PM shall prepare the Responsibility Assignment Matrix (RAM), Project Applicability Matrix (PAM), and Technical Characteristics for inclusion in the remarks section of the program CSDR Plan."

What is a RAM?

- The RAM summarizes key prime contractor data needed for CSDR plans.
 - Prepared by the DoD PM
 - Displays and describes contractor and subcontractor relationships and the WBS elements that each party is responsible for
 - "Provide the name and address of any prime contractors, subcontractors, and lower-tier subcontractors that <u>may</u> meet the CCDR reporting thresholds along with the specific WBS elements for which they are responsible"

Requires estimated contract values to be compared against reporting thresholds

DoD Instruction 5000.2



Table E3.T3. Contract Reporting Requirements

	Required Report	Source	When Required						
A commence (E.C.) of Landson (C.C.) of the Commence of the Com	CCDR	DoD 5000.4-M-1 This Instruction	 All major contracts and subcontracts, regardless of contract type, for ACAT I programs valued at more than \$50 million (FY2002 constant dollars) 						
			Not required for contracts priced below \$7 million (FY2002 constant dollars)						
			 The CCDR requirement on high-risk or high- technical-interest contracts priced between \$7 and \$50 million is left to the discretion of the Cost Working Integrated Product Team (IPT) 						
			 Not required for procurement of commercial systems, or for non-commercial systems bought under competitively awarded firm fixed-price 						
within t	the CCDR Ma	s are repeated nual (DOD DD Form 1921	contracts, as long as competitive conditions continue to exist.						

and 1921-1 Data Item Descriptions)

DoD Instruction 5000.2



Table E3.T3. Contract Reporting Requirements

Required Report	Source	When Required
SRDR	This Instruction	 All major contracts and subcontracts, regardless of contract type, for contractors developing/producing software elements within ACAT I and ACAT IA programs for any software development element with a projected software effort greater than \$25M (FY2002 constant dollars). Submit data on each software element at the following times: 180 days prior to contract award 60 days after contract award 60 days after start of subsequent software releases within 120 days after software release or final delivery

CSDR Reporting Thresholds

- Reporting thresholds are:
 - Inclusive of <u>all</u> anticipated contract options/modifications
 - e.g., contract award value equals \$40 million, but the value of the anticipated contract options sum to \$30 million, therefore the total contract value is \$70 million, exceeding the reporting threshold of \$50 million.

Applications of the RAM

- CSDR Plan Preparation
- Reference document for cost analysis
- Acquisition strategy tool

RAM Components

The RAM identifies WHO does WHAT for WHOM for HOW MUCH

- Program WBS
- Prime Contract Numbers
- Contractor/Subcontractor estimated values
- Contractor/Subcontractor Names & Addresses
- Administering Government activity

Don't lose sight of the overall objective of the CSDR process: to obtain valid, well-defined, historical cost data reports for the purpose of aiding in the development of life cycle estimates for future programs.

TYPES OF CONTRACTORS

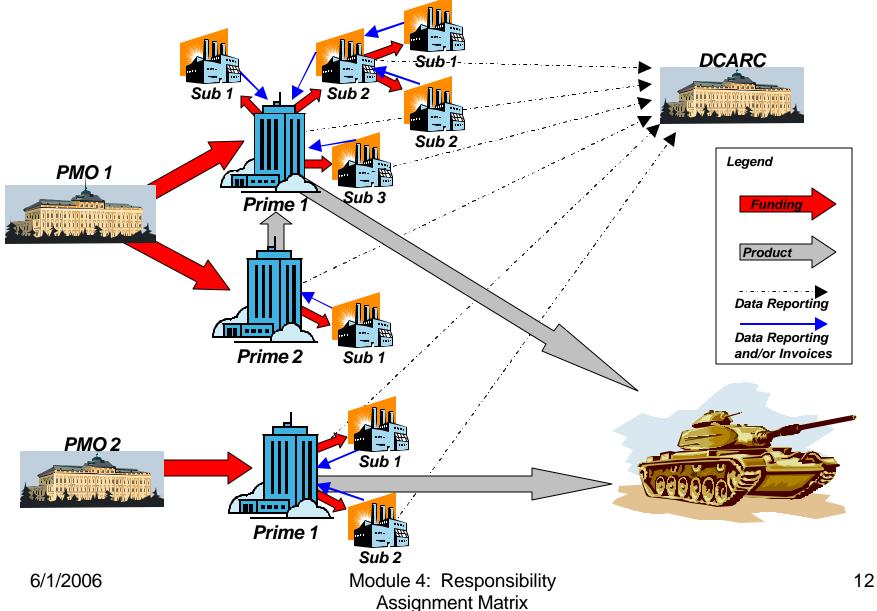
PRIME CONTRACTOR

Contract is with the government

SUBCONTRACTOR

- Contract is with a Prime Contractor or another Subcontractor
 - DIRECT REPORTING SUBCONTRACTOR
 - Delivers cost reports directly to the Government, bypassing the Prime Contractor
 - Summary subcontract values show up in Prime contractor cost reports
 - NON-REPORTING SUBCONTRACTOR
 - Low dollar level items that are subsumed in the Prime contractor's cost reports
 - Not required to submit cost reports to DCARC

Funding vs. Data Flow



RAM FORMAT

Merge the WBS* with descriptive contractor information...

WBS Element Code	WBS									
	L1	L2	L3	L4	L5					
1	RADA	R SYST	EM							
1.1		PRIME	MISSI	ON PR	ODUCT					
1.1.1			DISPL	ΑY						
1.1.2			RECEI	VER/T	RANSMITTER					
1.1.3			ANTE	NNA						
1.1.3.1				PEDES	TAL					
1.1.3.1.1					HOUSING					
1.1.3.1.2					PLATFORM					
1.1.3.1.3					GYRO					
1.1.3.2				SAIL						
1.1.3.3				WAVE	GUIDE					
1.1.4			SOFT	WARE						
1.2		SE/PM								
1.3		ST&E								
1.4		TRAIN	ING							
1.5		DATA								
1.6		SUPPO	ORT EC	QUIPME	NT					
1.6.1			TEST .	& MEAS	SUREMENT EQUIP.					
1.6.1.1				MAINT	ENANCE TEST SET					
1.6.1.1.1					DIAGNOSTIC ELEC.					
1.6.1.1.2		Ť			DISPLAYS/CONTROLS					
1.6.1.1.3					SOFTWARE					
1.6.1.1.4					RACKS					
1.6.1.2				CALIB	RATION GAUGES					
1.6.2			SUPP	ORT &	HANDLING EQUIP.					
1.7		SPARE	S							



		CFE				GFE		
Prime Contractor or Sub-Contractor	•	Prime	Subcontractor 1	Subcontractor 2	Subcontractor 3	Prime	Subcontroator n	
Description	CUM TOTAL	Radar	Antenna	Software	Display	Test Set	Diagnostic Elec.	
Contractor		RAD-MART	AERIAL INTERNATIONAL	BITS-R-US	Imaging Solutions	ATE Technologies	Faultfinder, Inc.	
Address		Springfield, NE	Pottsville, SD	Portland, CT	Kingstown, NM	Frankline, NY	Parsnip, FL	
Contract Number		D12345-06-C-7890				T78900-06-C-1234		
Contract Value (Estimated), TY\$M	\$682.0	\$550.0	\$45.0	\$102.0	\$20.0	\$132.0	\$41.0	
Software Contract Value (Estimated), TY\$M	\$158.0	\$125.0		\$85.0	\$7.0	\$33.0	\$17.0	
Government Organization or PARM		Defense Electronics Command	Defense Electronics Command	Defense Electronics Command	Defense Electronics Command	Defense Test Command	Defense Test Command	
CSDR Direct Reporting per CWIPT (Yes/No)		Yes	Yes	Yes	No	Yes	Yes	

Note: RAM and WBS development is *iterative*. Use the Program WBS when initially developing the RAM. Update the RAM as the WBS evolves.

RAM Format

The intersection of the WBS and the contractor descriptive information defines each contractor's responsibilities...

WBS

RECEIVER/TRANSMITTER

WAVEGUIDE

RACKS
CALIBRATION GAUGES
SUPPORT & HANDLING EQUIP.

HOUSING PLATFORM

DISPLAY

ANTENNA

SOFTWARE

SUPPORT EQUIPMENT

WBS Element

1.6.1.1.4

			(FE		GFE		
Prime Contractor or Sub-Contractor		Prime	Subcontractor 1	Subcontractor 2	Subcontractor 3	Prime	Subcontroator n	
Description	CUM TOTAL	Radar	Antenna	Software	Display	Test Set	Diagnostic Elec	
Contractor		RAD-MART	AERIAL INTERNATIONAL	BITS-R-US	Imaging Solutions	ATE Technologies	Faultfinder, Inc.	
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CSDR Direct Reporting per CWIPT (Yes/No)		Yes	Yes	Yes	No	Yes	Yes	
		X X X X	X X X X X		X			
		Х	Х	Х	Х			
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		X				1		
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		Х				X		
		X						

RAM Format

Divide PMP for visibility into CFE and GFE as necessary

RAM "Metadata" fields

			C	GFE			
Prime Contractor or Sub-Contractor	-	Prime	Subcontractor 1	Subcontractor 2	Subcontractor 3	Prime	Subcontroator n
Description	CUM TOTAL	Radar	Antenna	Software	Display	Test Set	Diagnostic Elec.
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CSDR Direct Reporting per CWIPT (Yes/No)		Yes	Yes	Yes	No	Yes	Yes

When contractor relationships have not yet been defined, simply enter "TBD"

PRACTICAL EXERCISE 30 MINUTES

 Using the materials provided, complete the RAM exercise

Questions / Discussion / Review

At this point, you should:

- Understand the purpose of a RAM
- Know contract reporting thresholds
- Be able to identify the differences between Prime contractors, subcontractors, and direct reporting subcontractors
- Understand the components of a RAM

For more information...

Read:

- CSDR Reference Book
 - DoD Instruction 5000.2, "Operation of the Defense Acquisition System"

Internet

DoD 5000.4-M-1, Cost and Software Data Reporting (CSDR)
 Manual (DRAFT September 2005), C3.5.7, C4.1.1, C5.3.17.1
 (http://dcarc.pae.osd.mil/csdr/CSDR_Manual_4-1-04-R22.pdf)